ELSEVIER

Journal of Non-Crystalline Solids 210 (1997) 307–309

JOURNAL OF NON-CRYSTALLINE SOLIDS

# Author index

Abel, C.-D., see Mohring, H.-D. 210 (1997) 306
Ahmed, A.A., N.A. Sharaf and R.A. Condrate, Sr, Raman microprobe investigation of sulphur-doped alkali borate glasses 210 (1997) 59
Aivazov, A.A., see Budaguan, B.G. 210 (1997) 267
Akiyama, T., see Tsukuma, K. 210 (1997) 48
Alkemper, J. and H. Fuess, Devitrification of bioactive invert phosphate glasses 210 (1997) 32
Arnault, L., A. Rivière and B. Lucas, Relaxations in $Li_2O$–$Al_2O_3$–$SiO_2$-type glass and glass-ceramics studied by isothermal mechanical spectroscopy 210 (1997) 87
Aronne, A., see Pernice, P. 210 (1997) 23
Asomoza, M., see Attos, O. 210 (1997) 163
Attos, O., M. Massot, M. Balkanski, E. Haro-Poniatowski and M. Asomoza, Structure of borovandate glasses studied by Raman spectroscopy 210 (1997) 163

Balkanski, M., see Attos, O. 210 (1997) 163
Barger, M.A., see Crowder, C.E. 210 (1997) 209
Barua, A.K., see Das, D. 210 (1997) 148
Bauer, G.H., see Mohring, H.-D. 210 (1997) 306
Begag, R., see Pajonk, G.M. 210 (1997) 224
Bertoncello, R., see Bogomolova, L.D. 210 (1997) 101
Bogomolova, L.D., V.A. Jachkin, S.A. Prushinsky, S.A. Dmitriev, S.V. Stefanovsky, Yu.G. Teplyakov, F. Caccavale, E. Cattaruzza, R. Bertoncello and F. Trivillin, Paramagnetic defects induced by ion implantation in oxide glasses 210 (1997) 101
Brüggemann, R., see Mohring, H.-D. 210 (1997) 306
Budaguan, B.G., D.A. Stryahilev and A.A. Aivazov, Optical properties, statistics of bond angle deformations and density of states in Si-rich a-$SiN_x$:H alloys 210 (1997) 267
Bunker, G., see Yang, D.S. 210 (1997) 275

Caccavale, F., see Bogomolova, L.D. 210 (1997) 101
Catauro, M., see Pernice, P. 210 (1997) 23
Cattaruzza, E., see Bogomolova, L.D. 210 (1997) 101
Chevalier, B., see Pajonk, G.M. 210 (1997) 224
Chmel, A., T. Pesina and V.S. Shashkin, Structural correlation and structural relaxation at the final stage of gel-to-glass transition in silica 210 (1997) 254
Condrate, Sr, R.A., see Ahmed, A.A. 210 (1997) 59
Crowder, C.E., J.U. Otaigbe, M.A. Barger, R.L. Sammler, B.C. Monahan and C.J. Quinn, Melt crystallization of zinc alkali phosphate glasses 210 (1997) 209

Das, D., S.M. Iftiquar and A.K. Barua, Wide optical-gap a-SiO:H films prepared by rf glow discharge 210 (1997) 148
De Biasi, R.S., see dos Santos, D.S. 210 (1997) 136
Delaye, J.M., V. Louis-Achille and D. Ghaleb, Modeling oxide glasses with Born–Mayer–Huggins potentials: Effect of composition on structural changes 210 (1997) 232
De Miranda, P.E.V., see dos Santos, D.S. 210 (1997) 136
Deng, P., see Yin, H. 210 (1997) 243
Dikova, J., see Starbova, K. 210 (1997) 261
Dmitriev, S.A., see Bogomolova, L.D. 210 (1997) 101
Dos Santos, D.S., R.S. de Biasi and P.E.V. de Miranda, Hydrogen permeation through amorphous and crystalline $Ni_{81}P_{19}$ ribbons 210 (1997) 136

Elaloui, E., see Pajonk, G.M. 210 (1997) 224

Fazzini, D.R., see Yang, D.S. 210 (1997) 275
Fuess, H., see Alkemper, J. 210 (1997) 32
Fujino, S., see Mito, T. 210 (1997) 155
Fukunaga, J., see Wakasugi, T. 210 (1997) 141

Gan, F., see Yin, H. 210 (1997) 243
Gates, B.C., see Rezgui, S. 210 (1997) 287
Gerber, Th., see Stachs, O. 210 (1997) 14
Ghaleb, D., see Delaye, J.M. 210 (1997) 232
Grevendonk, W., see Herremans, H. 210 (1997) 204

Haro-Poniatowski, E., see Attos, O. 210 (1997) 163
Herremans, H. and W. Grevendonk, Comparison of steady-state optical modulation spectra of $B_2H_6$-doped and $B(CH_3)_3$-doped a-Si(:C):H films 210 (1997) 204
Hirota, A., see Wakasugi, T. 210 (1997) 141
Hoffbauer, W., see Okuno, M. 210 (1997) 41

Iftiquar, S.M., see Das, D. 210 (1997) 148
Imai, H., see Tsukuma, K. 210 (1997) 48
Itoh, M., Electronic structures of Ag(Cu)–As–Se glasses 210 (1997) 178
Itoigawa, H., T. Kamiyama and Y. Nakamura, Bi precipitates in $Na_2O$–$B_2O_3$ glasses 210 (1997) 95

Jachkin, V.A., see Bogomolova, L.D. 210 (1997) 101
Janosovits, U., G. Ziegler, U. Scharf and A. Wokaun, Structural characterization of intermediate species during synthesis of $Al_2O_3$-aerogels 210 (1997) 1
Jansen, M., see Okuno, M. 210 (1997) 41

Kamiyama, T., see Itoigawa, H. 210 (1997) 95
Kerner, R. and M. Micoulaut, On the glass transition temperature in covalent glasses 210 (1997) 298

Louis-Achille, V., see Delaye, J.M. 210 (1997) 232
Lucas, B., see Arnault, L. 210 (1997) 87

Macdonald, J.R., Possible universalities in the ac frequency response of dispersed, disordered materials 210 (1997) 70
Marotta, A., see Pernice, P. 210 (1997) 23
Massot, M., see Attos, O. 210 (1997) 163
Micoulaut, M., see Kerner, R. 210 (1997) 298
Mito, T., S. Fujino, H. Takebe, K. Morinaga, S.-i. Todoroki and S. Sakaguchi, Refractive index and material dispersions of multicomponent oxide glasses 210 (1997) 155
Mohring, H.-D., C.-D. Abel, R. Brüggemann and G.H. Bauer, Erratum to "Characterization of high electronic quality a-SiC:H films by $\mu\tau$-products for electrons and holes". [J. Non-Cryst. Solids 137&138 (1991) 847] 210 (1997) 306
Monahan, B.C., see Crowder, C.E. 210 (1997) 209
Morgan, S.H., see Pan, Z. 210 (1997) 130
Morinaga, K., see Mito, T. 210 (1997) 155
Morrison, T.I., see Yang, D.S. 210 (1997) 275

Nakamura, Y., see Itoigawa, H. 210 (1997) 95

Oguni, M., 'Intra-cluster rearrangement' model for the α-process in supercooled liquids, as opposed to 'cooperative rearrangement of whole molecules within a cluster' 210 (1997) 171
Okuno, M., Y. Shimada, M. Schmücker, H. Schneider, W. Hoffbauer and M. Jansen, LAXS and $^{27}Al$ MAS NMR studies on the temperature-induced changes of non-crystalline single phase type mullite precursors 210 (1997) 41
O'Leary, S.K., S. Zukotynski and J.M. Perz, Disorder and optical absorption in amorphous silicon and amorphous germanium 210 (1997) 249
Ota, R., see Wakasugi, T. 210 (1997) 141
Otaigbe, J.U., see Crowder, C.E. 210 (1997) 209

Ou, D.L. and A.B. Seddon, Near- and mid-infrared spectroscopy of sol–gel derived ormosils: vinyl and phenyl silicates 210 (1997) 187

Pajonk, G.M., E. Elaloui, B. Chevalier and R. Begag, Optical transmission properties of silica aerogels prepared from polyethoxidisiloxanes 210 (1997) 224
Pan, Z. and S.H. Morgan, Raman spectra and thermal analysis of a new lead–tellurium–germanate glass system 210 (1997) 130
Pernice, P., A. Aronne, M. Catauro and A. Marotta, Glass transition temperature and devitrification study of barium germanate glasses 210 (1997) 23
Perz, J.M., see O'Leary, S.K. 210 (1997) 249
Pesina, T., see Chmel, A. 210 (1997) 254
Petkov, V., see Stachs, O. 210 (1997) 14
Prushinsky, S.A., see Bogomolova, L.D. 210 (1997) 101

Quinn, C.J., see Crowder, C.E. 210 (1997) 209

Rezgui, S. and B.C. Gates, Control of magnesia–alumina properties by acetic acid in sol–gel synthesis 210 (1997) 287
Rivière, A., see Arnault, L. 210 (1997) 87

Sakaguchi, S., see Mito, T. 210 (1997) 155
Sammler, R.L., see Crowder, C.E. 210 (1997) 209
Scharf, U., see Janosovits, U. 210 (1997) 1
Schmücker, M., see Okuno, M. 210 (1997) 41
Schneider, H., see Okuno, M. 210 (1997) 41
Seddon, A.B., see Ou, D.L. 210 (1997) 187
Sharaf, N.A., see Ahmed, A.A. 210 (1997) 59
Shashkin, V.S., see Chmel, A. 210 (1997) 254
Shimada, Y., see Okuno, M. 210 (1997) 41
Stachs, O., Th. Gerber and V. Petkov, Atomic-scale structure of $ZrO_2$ xerogels by X-ray diffraction and reverse Monte Carlo simulations 210 (1997) 14
Starbov, N., see Starbova, K. 210 (1997) 261
Starbova, K., J. Dikova and N. Starbov, Structure related properties of obliquely deposited amorphous a-$As_2S_3$ thin films 210 (1997) 261
Stefanovsky, S.V., see Bogomolova, L.D. 210 (1997) 101
Stryahilev, D.A., see Budaguan, B.G. 210 (1997) 267

Takebe, H., see Mito, T. 210 (1997) 155
Tanaka, K., see Yoshida, N. 210 (1997) 119
Teplyakov, Yu.G., see Bogomolova, L.D. 210 (1997) 101
Todoroki, S.-i., see Mito, T. 210 (1997) 155
Trivillin, F., see Bogomolova, L.D. 210 (1997) 101
Tröger, L., see Yang, D.S. 210 (1997) 275
Tsuchiya, T., see Watanabe, Y. 210 (1997) 55
Tsukuma, K., T. Akiyama and H. Imai, Liquid phase deposition film of tin oxide 210 (1997) 48

Wakasugi, T., A. Hirota, J. Fukunaga and R. Ota, Solubility of $Ag_2O$ into the $Na_2O$–$B_2O_3$–$Al_2O_3$ system 210 (1997) 141
Watanabe, Y. and T. Tsuchiya, Two-photon absorption and non-linear refraction in commercial lead silicate glasses at 532 nm 210 (1997) 55
Wokaun, A., see Janosovits, U. 210 (1997) 1

Yang, D.S., D.R. Fazzini, T.I. Morrison, L. Tröger and G. Bunker, Modeling of pair distribution functions for XAFS in disordered systems 210 (1997) 275
Yin, H., P. Deng, J. Zhang and F. Gan, Emission properties of $Yb^{3+}$ in fluorophosphate glass. 210 (1997) 243
Yoshida, N. and K. Tanaka, Ag migration in Ag–As–S glasses induced by electron-beam irradiation 210 (1997) 119

Zhang, J., see Yin, H. 210 (1997) 243
Ziegler, G., see Janosovits, U. 210 (1997) 1
Zukotynski, S., see O'Leary, S.K. 210 (1997) 249

ELSEVIER

Journal of Non-Crystalline Solids 210 (1997) 310–312

JOURNAL OF NON-CRYSTALLINE SOLIDS

# Subject index

**Aerogels**
Processing Variables, Sol–Gel Precursors 210 (1997) 224

**Alumina**
Infra-red Absorption, Raman Spectra, Sol–Gel Processes 210 (1997) 1

**Amorphous Alloys**
Electron Spin Resonance, Glasses Containing Transition Metal Ions, Hydrogenation 210 (1997) 136

**Amorphous Semiconductors**
Doping, Optical Properties, Silicon Alloys 210 (1997) 204
Electronic Structure, Modelling 210 (1997) 249

**Borates**
Glasses Containing Transition Metal Ions, Raman Spectra, Structure 210 (1997) 163
Processing Variables, Solutions 210 (1997) 141
Raman Spectra 210 (1997) 59

**Chalcogenides**
Electronic Structure, Photoinduced Effects 210 (1997) 178
Hardness, Optical Properties, Thin Films, Vapour Phase Deposition 210 (1997) 261
Radiation Effects, Thin Films 210 (1997) 119

**Chalcogenide Glasses**
Glass Transition, Modelling, Oxides 210 (1997) 298

**Clusters**
Crystal to Amorphous Phase Transformation, Crystallization, Relaxation 210 (1997) 171

**Colloids**
Melting, Microstructure 210 (1997) 95

**Computer Simulation**
Phosphates, Processing Variables 210 (1997) 209

**Crystal to Amorphous Phase Transformation**
Clusters, Crystallization, Relaxation 210 (1997) 171

**Crystallization**
Clusters, Crystal to Amorphous Phase Transformation, Relaxation 210 (1997) 171
Glass Transition, Structure 210 (1997) 23
Nucleation, Phosphates 210 (1997) 32
Sol–Gel Precursors, Sol–Gel Processes 210 (1997) 287

**Deposition Techniques**
Hydrogen Effects, Silicon Alloys, Silicon Nitride, Thin Films 210 (1997) 267

**Dielectric Properties**
Dielectric Relaxation, Electrical Properties and Relaxation, Modelling 210 (1997) 70

**Dielectric Relaxation**
Dielectric Properties, Electrical Properties and Relaxation, Modelling 210 (1997) 70

**Doping**
Amorphous Semiconductors, Optical Properties, Silicon Alloys 210 (1997) 204

**Electrical Properties and Relaxation**
Dielectric Properties, Dielectric Relaxation, Modelling 210 (1997) 70

**Electron Spin Resonance**
Amorphous Alloys, Glasses Containing Transition Metal Ions, Hydrogenation 210 (1997) 136
Ion Implantation, Oxides 210 (1997) 101

**Electronic Structure**
Amorphous Semiconductors, Modelling 210 (1997) 249
Chalcogenides, Photoinduced Effects 210 (1997) 178

**EXAFS**
Modelling 210 (1997) 275

**Fluorescence Spectra**
Fluorides, Rare Earth Ions 210 (1997) 243

**Fluorides**
Fluorescence Spectra, Rare Earth Ions 210 (1997) 243

**Gels**
Glass Formation, Infra-red Absorption, Raman Spectra 210 (1997) 254

**Glass Formation**
Gels, Infra-red Absorption, Raman Spectra 210 (1997) 254

**Glass Transition**
Chalcogenide Glasses, Modelling, Oxides 210 (1997) 298
Crystallization, Structure 210 (1997) 23

**Glasses Containing Transition Metal Ions**
Amorphous Alloys, Electron Spin Resonance, Hydrogenation 210 (1997) 136
Borates, Raman Spectra, Structure 210 (1997) 163

**Hardness**
Chalcogenides, Optical Properties, Thin Films, Vapour Phase Deposition 210 (1997) 261

**Hydrogen Effects**
Deposition Techniques, Silicon Alloys, Silicon Nitride, Thin Films 210 (1997) 267

**Hydrogenation**
Amorphous Alloys, Electron Spin Resonance, Glasses Containing Transition Metal Ions 210 (1997) 136

**Infra-red Absorption**
Alumina, Raman Spectra, Sol–Gel Processes 210 (1997) 1
Gels, Glass Formation, Raman Spectra 210 (1997) 254
Organic–Inorganic Hybrids, Processing Variables 210 (1997) 187

**Ion Implantation**
Electron Spin Resonance, Oxides 210 (1997) 101

**Mechanical Properties**
Mechanical Relaxation, Silicates 210 (1997) 87

**Mechanical Relaxation**
Mechanical Properties, Silicates 210 (1997) 87

**Melting**
Colloids, Microstructure 210 (1997) 95

**Microstructure**
Colloids, Melting 210 (1997) 95

**Modelling**
Amorphous Semiconductors, Electronic Structure 210 (1997) 249
Chalcogenide Glasses, Glass Transition, Oxides 210 (1997) 298
Dielectric Properties, Dielectric Relaxation, Electrical Properties and Relaxation 210 (1997) 70
EXAFS 210 (1997) 275
Molecular Dynamics, Oxides, Structure 210 (1997) 232

**Molecular Dynamics**
Modelling, Oxides, Structure 210 (1997) 232

**Monte Carlo Simulations**
Sol–Gel Processes, Structure 210 (1997) 14

**Non-linear Optics**
Oxides, Refractive Index 210 (1997) 55

**Nuclear Magnetic Resonance**
Oxides, Structure, X-ray Diffraction 210 (1997) 41

**Nucleation**
Crystallization, Phosphates 210 (1997) 32

**Optical Properties**
Amorphous Semiconductors, Doping, Silicon Alloys 210 (1997) 204
Chalcogenides, Hardness, Thin Films, Vapour Phase Deposition 210 (1997) 261
Oxides, Refractive Index 210 (1997) 155
Thin Film Transistors, Vapour Phase Deposition 210 (1997) 148

**Organic–Inorganic Hybrids**
Infra-red Absorption, Processing Variables 210 (1997) 187

**Oxides**
Chalcogenide Glasses, Glass Transition, Modelling 210 (1997) 298
Electron Spin Resonance, Ion Implantation 210 (1997) 101
Modelling, Molecular Dynamics, Structure 210 (1997) 232
Non-linear Optics, Refractive Index 210 (1997) 55
Nuclear Magnetic Resonance, Structure, X-ray Diffraction 210 (1997) 41
Optical Properties, Refractive Index 210 (1997) 155
Raman Spectra, Thermal Properties 210 (1997) 130
Solutions, Thin Films 210 (1997) 48

**Phosphates**
Computer Simulation, Processing Variables 210 (1997) 209
Crystallization, Nucleation 210 (1997) 32

**Photoinduced Effects**
Chalcogenides, Electronic Structure 210 (1997) 178

**Processing Variables**
Aerogels, Sol–Gel Precursors 210 (1997) 224
Borates, Solutions 210 (1997) 141
Computer Simulation, Phosphates 210 (1997) 209
Infra-red Absorption, Organic–Inorganic Hybrids 210 (1997) 187

**Radiation Effects**
Chalcogenides, Thin Films 210 (1997) 119

**Raman Spectra**
Alumina, Infra-red Absorption, Sol–Gel Processes 210 (1997) 1
Borates, Glasses Containing Transition Metal Ions, Structure 210 (1997) 163
Borates 210 (1997) 59
Gels, Glass Formation, Infra-red Absorption 210 (1997) 254
Oxides, Thermal Properties 210 (1997) 130

**Rare Earth Ions**
Fluorescence Spectra, Fluorides 210 (1997) 243

**Refractive Index**
Non-linear Optics, Oxides 210 (1997) 55
Optical Properties, Oxides 210 (1997) 155

**Relaxation**
Clusters, Crystal to Amorphous Phase Transformation, Crystallization 210 (1997) 171

**Silicates**
Mechanical Properties, Mechanical Relaxation 210 (1997) 87

**Silicon Alloys**
Amorphous Semiconductors, Doping, Optical Properties 210 (1997) 204
Deposition Techniques, Hydrogen Effects, Silicon Nitride, Thin Films 210 (1997) 267

**Silicon Nitride**
Deposition Techniques, Hydrogen Effects, Silicon Alloys, Thin Films 210 (1997) 267

**Sol–Gel Precursors**
Aerogels, Processing Variables 210 (1997) 224
Crystallization, Sol–Gel Processes 210 (1997) 287

**Sol–Gel Processes**
Alumina, Infra-red Absorption, Raman Spectra 210 (1997) 1
Crystallization, Sol–Gel Precursors 210 (1997) 287
Monte Carlo Simulations, Structure 210 (1997) 14

**Solutions**
Borates, Processing Variables 210 (1997) 141
Oxides, Thin Films 210 (1997) 48

**Structure**
Borates, Glasses Containing Transition Metal Ions, Raman Spectra 210 (1997) 163
Crystallization, Glass Transition 210 (1997) 23
Modelling, Molecular Dynamics, Oxides 210 (1997) 232
Monte Carlo Simulations, Sol–Gel Processes 210 (1997) 14
Nuclear Magnetic Resonance, Oxides, X-ray Diffraction 210 (1997) 41

**Thermal Properties**
Oxides, Raman Spectra 210 (1997) 130

**Thin Film Transistors**
Optical Properties, Vapour Phase Deposition 210 (1997) 148

**Thin Films**
Chalcogenides, Hardness, Optical Properties, Vapour Phase Deposition 210 (1997) 261
Chalcogenides, Radiation Effects 210 (1997) 119
Deposition Techniques, Hydrogen Effects, Silicon Alloys, Silicon Nitride 210 (1997) 267
Oxides, Solutions 210 (1997) 48

**Vapour Phase Deposition**
Chalcogenides, Hardness, Optical Properties, Thin Films 210 (1997) 261
Optical Properties, Thin Film Transistors 210 (1997) 148

**X-ray Diffraction**
Nuclear Magnetic Resonance, Oxides, Structure 210 (1997) 41